Hosmay Lopez

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EDUCATION

Ph. D. Meteorology and Physical Oceanography, 2013
University of Miami, Miami, FL
Committee: Ph.D., Ben P. Kirtman (chair)
Ph.D., Chidong Zhang
Ph.D., Mohamed Iskandarani
Ph.D., Robert Burgman

B.S. Double Major in Meteorology and Applied Mathematics, 2009
Florida State University, Tallahassee, FL
GPA: 3.83 / 4.0 Magna Cum Laude

RESEARCH EXPERIENCE

Cooperative Institute for Marine and Atmospheric Studies (CIMAS), University of
Miami and Atlantic Oceanographic and Meteorological Laboratory (AOML), NOAA.
Miami, FL.
May 2014-present, Post-doctoral Associate and NOAA contractor.

University of Miami, Miami, FL
January 2014 – May 2014, Post-doctoral Associate

University of Miami, Miami, FL
August 2009 – December 2013, Graduate Research Assistant

TEACHING EXPERIENCE

University of Miami, Miami, FL
2011, Graduate Teaching Assistant
MSC243 Introduction to Weather Forecasting (undergraduate)

University of Miami, Miami, FL
      2013, CCS HPC Workshop at RSMAS
      CESM tutorial section (speaker)

REFEREED PUBLICATIONS

Lopez H., and B. P. Kirtman (2015): Investigating the Seasonal Predictability of Significant Wave Height in the West Pacific and Indian Oceans. *Submitted to Geophysical Research Letter.*

Lopez H., S. Dong, S. -K. Lee, and G. Goni (2015): The role of the South Atlantic Meridional Overturning Circulation variability on modulating interhemispheric atmospheric circulation and monsoons. *Submitted to J. of Climate.*

Lopez H., and B. P. Kirtman (2014): WWBs, ENSO predictability, the spring barrier, and extreme events, *Journal of Geophysical Research: Atmospheres* **119 (17),** 10,114-10,138.

Lopez H., and B. P. Kirtman (2014): Tropical Pacific internal atmospheric dynamics and resolution in a coupled GCM. *Climate Dynamics,* 1-19. doi:10.1007/s00382-014-2220-7

Lopez H., and B. P. Kirtman (2013): Westerly wind bursts and the diversity of ENSO in CCSM3 and CCSM4, *Geophysical Research Letter.,* **40,** 4722-4727. doi:10.1002/grl.50913.

Lopez H., B. P. Kirtman, E. Tziperman, and G. Gebbie (2013): Impact of interactive westerly wind bursts on CCSM3, *Dynamics of Atmospheres and Oceans,* doi:10.1016/j.dynatmoce.2012.11.001.

CONFERENCE PRESENTATIONS

     Talks:

2015, Relationship between decadal variability of European and North American heat waves and South Atlantic Meridional heat transport. IUGG 26th General Assembly. Prague, Czech Republic.

2013, Impact of westerly wind bursts on tropical Pacific variability and predictability. Meteorology and Physical Oceanography student seminar. University of Miami, Miami, FL, United States.

2011, Impact of interactive westerly wind bursts on CCSM3. WCRP Open Science Conference. Denver, CO, United States.

2011, Impact of interactive westerly wind bursts on CCSM3. 91st Annual Meeting of the American Meteorological Society (AMS). Seattle, WA, United States.

2011, Internal atmospheric dynamics and climate. Meteorology and Physical Oceanography student seminar. University of Miami, Miami, FL, United States.

2010, Westerly wind burst modulation by the sea surface temperature. Meteorology and Physical Oceanography student seminar. University of Miami, Miami, FL, United States.

Posters:

2015, Linking the South Atlantic Meridional Overturning Circulation and the Global Monsoons. 2015 AGU Fall Meeting. San Francisco, CA, United States.

2011, Impact of interactive westerly wind bursts on CCSM3. WCRP Open Science Conference. Denver, CO, United States.

COMPUTING SKILLS

Operating systems: Linux, Mac, & Window

Coding: FORTRAN (advanced), GrADS (advanced), NCL, MATLAB, Shell scripting.

PROFFESIONAL OSSOCIATIONS AND ACTIVITIES

2013-present. Member of the American Geophysical Union.

2013-present. Reviewer for the Journal of Geophysical Research Letter.

2012-present. Reviewer for the Journal of Climate Dynamics.